

## WHAT IS CLAIMED IS:

1. A logarithmic graph plotting apparatus comprising:  
a range setting unit for setting x- and y-coordinate ranges;  
a graph plotting unit for plotting a graph in a coordinate  
5 system with the x- and y-coordinate ranges set by the range setting  
unit;

a logarithmic scale marking unit for marking x- and/or  
y-axes with logarithmic scales in the x- and y-coordinate ranges set  
by the range setting unit; and

10 a logarithmic graph plotting unit for plotting a logarithmic  
graph depending upon the logarithmic scales marked on the x-  
and/or y-coordinate axes by the logarithmic scale marking means.

2. The logarithmic graph plotting apparatus according to  
15 claim 1, wherein the range setting unit comprises a unit for  
displaying a range setting picture on which items for setting the x-  
and y-coordinate ranges, respectively, and items for setting the x-  
and/or y-axes as corresponding x- and/or y- logarithmic axes,  
respectively are indicated selectable; and

20 the logarithmic scale marking unit marks the x- and/or  
y-axes with logarithmic scales in the x- and/or y-coordinate ranges  
set by the corresponding range setting items when the items for  
setting the x- and/or y-axes as the corresponding x- and/or y-  
logarithmic axes are selected on the range setting picture.

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3. The logarithmic graph plotting apparatus according to  
claim 1, comprising a unit for indicating error when the items for

setting the x- and/or y-axes as the corresponding x- and/or y-  
logarithmic axes are selected and the set x- and/or y-coordinate  
ranges includes a value other than a positive value.

5           4.       The logarithmic graph plotting apparatus according to  
claim 1, wherein the logarithmic scales include a plurality of  
straight lines extending from the corresponding scales on the x-  
and/or y-logarithmic axes.

10           5.       The logarithmic graph plotting apparatus according to  
claim 1, wherein the items for setting the x- and/or y-axes as the  
corresponding logarithmic axes comprise check boxes to be checked  
off.

15           6.       A computer-readable recording medium having  
recorded a logarithmic graph plotting program for controlling a  
computer of a graph plotting apparatus, the program causing the  
computer to function as:  
              a range setting unit for setting x- and y-coordinate ranges;  
20           a graph plotting unit for plotting a graph in a coordinate  
system with the x- and y-coordinate ranges set by the range setting  
unit;  
              a logarithmic scale marking unit for marking x- and/or  
y-axes with logarithmic scales in the x- and y-coordinate ranges set  
25           by the range setting unit; and  
              a logarithmic graph plotting unit for plotting a logarithmic  
graph depending upon the logarithmic scales marked on the x-

and/or y-coordinate axes by the logarithmic scale marking means.